

Amendments to the Claims:

The following listing of claims will replace all previous versions and listings of claims:

Claims:

1. (Currently Amended) [[A]] An electrical machine, comprising:
 - a housing assembly having first and second ends;
 - a first bearing mounted in said housing, said first bearing having a plurality of rolling elements disposed between first inner and outer races ;
 - a second bearing mounted in said housing and spaced away from said first bearing, said second bearing having a plurality of rolling elements disposed between second inner and outer races;
 - a rotor assembly having first and second ends mounted in said first and second bearings, respectively, such that said rotor has a predetermined amount of axial and radial play relative to said housing;
 - a biasing element disposed between one of said rotor assembly or said housing and one of said bearings, said biasing element urging said rotor assembly to a preloaded position which eliminates said axial and radial play, wherein ~~each of~~ said first inner race and ~~outer races~~ and said second inner race are secured to said rotor assembly and said first outer race and said second outer race ~~races~~ is are secured to ~~one of~~ ~~said rotor assembly or to~~ said housing to restrict axial movement of each of said first inner race and said second inner race relative to said rotor assembly and said first

outer race and said second outer race relative to said housing, such that said rotor assembly is retained in said preloaded position;

wherein the coefficients of thermal expansion of said housing assembly, said bearings, and said rotor are selected so that said rotor assembly will be retained in said preloaded position over a temperature range of about -40⁰ C to about 105⁰ C.

2. (Canceled)

3. (Original) The electrical machine of claim 1 wherein said biasing element comprises a spring disposed between said rotor assembly and said first or second inner race.

4. (Original) The electrical machine of claim 1 wherein said biasing element comprises a spring disposed between said housing and said first or second outer race.

5. (Original) The electrical machine of claim 1 wherein said housing assembly

comprises:

a generally cylindrical housing including an axially extending portion with a front end plate connected to a front end thereof; and
an end bell attached to a rear end of said housing.

6. (Canceled)

7. (Previously Presented) The electrical machine of claim 1 wherein said bearings are constructed from high carbon chromium steel and said housing assembly and said rotor assembly are constructed from 400 series stainless steel.

8. (Canceled)

9. (Canceled)

10. (Canceled)

11. (Canceled)

12. (Canceled)

13. (Currently Amended) An electric motor, comprising:

 a generally cylindrical housing assembly having first and second ends, said housing defining first and second spaced-apart bearing pockets;

 a first bearing having a plurality of rolling elements disposed between first inner and outer races, said first outer race being received in said first bearing pocket;

 a second bearing having a plurality of rolling elements disposed between second inner and outer races, said second outer race being received in said second bearing pocket;

 a rotor assembly including a shaft received in said first and second inner races, such that said rotor has a predetermined amount of axial and radial play relative to said housing;

 a biasing element disposed between one of said rotor assembly or said housing and one of said bearings which urges said rotor assembly to a preloaded

position which eliminates said axial and radial play, wherein said first inner race and said second inner race outer races are secured to said shaft, and said first outer race and said second inner and outer race races are secured to said housing to restrict axial movement of each of said first inner race and said second inner race relative to the shaft and said first outer race and said second outer race relative to the housing, such that said rotor assembly is retained in said preloaded position; and

wherein the coefficients of thermal expansion of said housing assembly, said bearings, and said rotor are selected so that said rotor assembly will be retained in said preloaded position over a temperature range of about -40^0 C to about 105^0 C.

14. (Original) The electric motor of claim 13 wherein said first and second outer races are secured to said housing, and said first and second inner races are secured to said shaft.

15. (Original) The electric motor of claim 13 wherein said biasing element comprises a spring disposed between said shaft and said first or second inner race.

16. (Original) The electric motor of claim 13 wherein said biasing element comprises a spring disposed between said housing and said first or second outer race.

17. (Original) The electric motor of claim 13 wherein said housing assembly comprises:

a generally cylindrical housing including an axially extending portion with a front end plate connected to a front end thereof; and
an end bell attached to a rear end of said housing.

18. (Canceled)

19. (Previously Presented) The electric motor of claim 13 wherein said bearings are constructed from high carbon chromium steel and said housing assembly and said rotor assembly are constructed from 400 series stainless steel.